

Amendments to the specification

Please replace the paragraph starting on page 2, line 20, with the following amended paragraph:

Referring to Fig. 1, data frames are transmitted in a forward or backward direction during time slots S1 ~ S4 assigned in advance. That is, the data frames are transmitted between the mobile station and the base station continuously alternating the down link slot S1 and S3 and the up link slots S2 and S4. That is, the data frames produced at the base station or the mobile station are transmitted repeatedly alternating assigned down link slots and up link slots. This type of signal transmission has been developed on the assumption that the mobile communication network serves for a speech data transmission in which a ratio of data transmission between a transmission side and a reception side is 1 :1. Due to this reason, a trend is kept on, in which the down link slots and the up link slots are assigned simply at an equal ratio to most of current mobile communication devices. However, in a mobile communication service of IMT-2000 communication network basis, not only speech services, but also a variety of multimedia services, such as internet service and image broadcasting service are provided. In the internet or image service, an asymmetric transmission system is employed, in which an amount of data is transmitted in down link slots is relatively greater than an amount of data transmitted in up link slots, resulting to use slots of one direction of the down or up link slots continuously while slots of the other direction are almost not used in a case the multimedia service is given using a communication network having the down link slots and the up link slots assigned are assigned equally. In such a case as a case, there is a problem that a capacity of a given channel is not used effectively. Consequently, to match to such an asymmetric transmission system, a TDD(Time Division Duplex) system is suggested, in which different numbers of down link slots and up link slots are assigned. That is, numbers of down link slots and up link slots are varied with amounts of data.

Please replace the paragraph starting on page 3, line 18, with the following amended paragraph:

However, the TDD system has many problems in practical applications. The greatest problems are that random access and synchronization acquisition are difficult because periods of the mobile station and the base station which have regular down link slots and up link slots are not known in advance when the mobile station attempts to start an initial communication. In order to solve such problems, as shown in Fig. 2, an improved TDD system is suggested, which employs both a static period(TDD1) having down link slots and up links slots assigned therein in a regular alternation and a dynamic period(TDD2) having down link slots and up ~~links-link~~ slots irregularly assigned therein according to amount of the data to be transmitted. In the improved TDD system, the problems of random access and the synchronization acquisition between the mobile station and the base station can be ~~solved with easy~~easily solved by using the static period(TDD1). And, since a communication can be made by providing numbers of down link slots and up link slots in the dynamic period(TDD2) varied with an amount of data, a given channel capacity can be used, effectively.

Please replace the paragraph starting on page 4, line 22, with the following amended paragraph:

An object of the present invention is to provide a method of communication between a mobile station and a base station in a mobile communication system of IMT-2000 communication network which can provide a variety of communication services, which allows an effective communication between mobile stations and a base station when numerous mobile stations require communication services at almost the same time ~~a time~~.

Please replace the paragraph starting on page 5, line 4, with the following amended paragraph:

Another object of the present invention is to provide a method of communication between a mobile station and a base station in a mobile communication system of IMT-2000 communication network which can provide a variety of communication services, which can provide a data frame structure that allows easy determination of transmission system depending

on characteristic and amount of data to be transmitted when numerous mobile stations require communication services at almost the same time at a time.

Please replace the paragraph starting on page 7, line 4, with the following amended paragraph:

Figs. 1 and 2 respectively illustrate architectures of down link slots and up ~~links-link~~ slots for use in a bidirectional communication in a related art mobile communication system;

Please replace the paragraph starting on page 12, line 3, with the following amended paragraph:

As has been explained, the method of communication between a mobile station and a base station in a mobile communication system of IMT-2000 communication network basis that provides a variety of multimedia services having speech signals and image signals composited therein allows an effective transmission of data according to a transmission type determined according to service options for the mobile station. Therefore, a communication service can be provided, in which a given channel capacity can be maximized even in a case when subscribers to the mobile stations within a certain region request for data transmission at ~~a substantially~~ substantially the same time.